

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

| | | |
|--|--|--|
| Applicant's or agent's file reference PHUS030088WO | FOR FURTHER ACTION <small>see Form PCT/ISA/220 as well as, where applicable, item 5 below.</small> | |
| International application No. PCT/IB2004/001107 | International filing date (day/month/year) 12/04/2004 | (Earliest) Priority Date (day/month/year) 16/04/2003 |
| Applicant KONINKLIJKE PHILIPS ELECTRONICS N.V. | | |

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 4 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐ **Certain claims were found unsearchable** (See Box II).

3. ☐ **Unity of invention is lacking** (see Box III).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regards to the **drawings**,

a. the figure of the **drawings** to be published with the abstract is Figure No. 2

☒ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

b. ☐ none of the figures is to be published with the abstract.

INTERNATIONAL SEARCH REPORT

International Application No
PCT/IB2004/001107

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 G01N21/17 G01N21/63 G01N29/24 G01B11/06

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G01N G01B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category ° | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|--|-----------------------|
| X | US 4 666 308 A (WILLIAMS CLAYTON C) 19 May 1987 (1987-05-19) | 1 |
| Y | column 1, line 9 -column 2, line 64 | 1 |
| A | column 7, line 24 - line 59; figures 1,3 | 6-8,12, 13 |
| Y | US 5 812 261 A (ROGERS JOHN A ET AL) 22 September 1998 (1998-09-22) cited in the application | 1 |
| A | column 4, line 32 -column 5, line 27; figures 1,2 | 2,6,7, 12,13 |
| Y | US 5 633 711 A (DUGGAL ANIL R ET AL) 27 May 1997 (1997-05-27) cited in the application | 1 |
| A | column 6, line 52 -column 8, line 9; figures 1-3 | 6,7,12, 13 |
| | -/-- | |

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

° Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the international search

1 July 2004

Date of mailing of the international search report

20/07/2004

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International Application No
PCT/IB2004/001107

| C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT | | |
|--|--|-----------------------|
| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
| A | US 4 683 750 A (STEARNS RICHARD G ET AL) 4 August 1987 (1987-08-04) column 1, line 6 -column 2, line 65 column 10, line 13 - line 23; figure 1 --- | 1 |
| A | WO 01/35881 A (JEAN BENEDIKT ;BENDE THOMAS (DE)) 25 May 2001 (2001-05-25) page 9, line 5 -page 10, line 16 page 14, line 8 - line 20 ----- | 1 |

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/IB2004/001107

| Patent document cited in search report | | Publication date | Patent family member(s) | Publication date |
|---|---|---------------------|---|--|
| US 4666308 | A | 19-05-1987 | NONE | |
| US 5812261 | A | 22-09-1998 | US 5633711 A EP 0913071 A1 JP 2000515244 T WO 9803044 A1 US 6081330 A US 6348967 B1 | 27-05-1997 06-05-1999 14-11-2000 22-01-1998 27-06-2000 19-02-2002 |
| US 5633711 | A | 27-05-1997 | US 6081330 A US 6348967 B1 US 5812261 A DE 69232288 D1 DE 69232288 T2 EP 0593667 A1 WO 9301476 A1 | 27-06-2000 19-02-2002 22-09-1998 24-01-2002 14-08-2002 27-04-1994 21-01-1993 |
| US 4683750 | A | 04-08-1987 | NONE | |
| WO 0135881 | A | 25-05-2001 | AU 1521201 A WO 0135881 A1 US 6694173 B1 | 30-05-2001 25-05-2001 17-02-2004 |